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WO 99/57820 discloses a method of calibrating mainly the transmitting and receiving parts of a basestation to achieve reciprocity in the uplink and downlink communication. Also the electronics in the transmitting and receiving parts of a subscriber unit may be accounted for, giving calibrations of basestation – subscriber unit pairs. The method according to WO

5 99/57820 comprises of transmitting a calibration bursts from basestation to a subscriber unit and from the subscriber unit to the basestation, determining “downlink signature estimate” and/or “downlink signature estimates” based on the calibration burst(s) and sending the “downlink signature estimate” to the base station, which uses the signature estimate(s) to calibrate its transmission-receiving chain to achieve reciprocity.

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